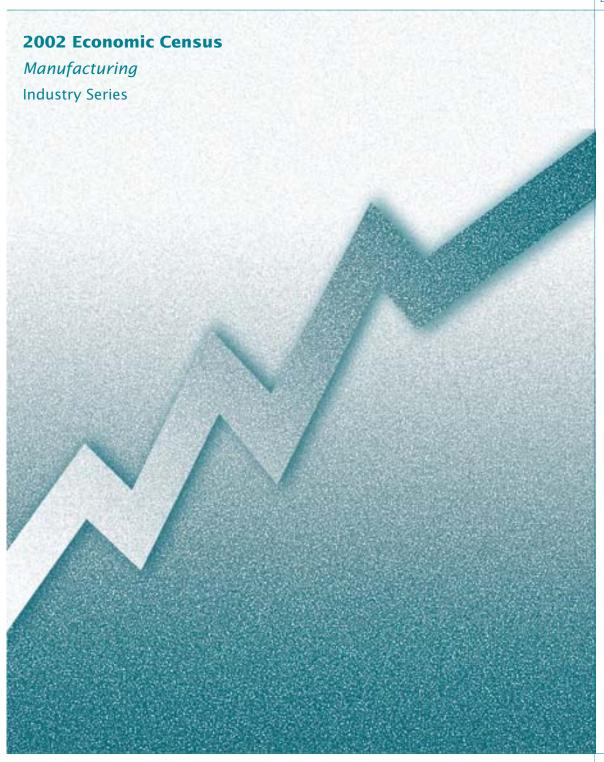
Soybean Processing: 2002

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Helping You Make Informed Decisions

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All employees		Pro	duction wor	kers		Total	Total	Total capital	
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	shipments	expendi- tures (\$1,000)
311222, Soybean processing	61 N N N N 43	117 N N N N 92	7 314 6 630 6 542 6 476 6 388 6 601	290 672 266 295 254 215 247 068 238 814 229 727	5 245 4 694 4 617 4 520 4 486 4 560	11 283 10 325 10 274 10 091 10 017 10 207	181 396 162 295 156 449 151 203 142 989 140 346	3 042 779 2 253 091 1 655 686 1 384 121 1 402 993 1 623 082	9 846 649 8 829 849 8 545 930 9 541 841 11 250 793 12 449 318	12 783 547 11 030 540 10 113 110 11 014 419 12 696 171 14 036 271	189 131 163 603 142 975 389 287 299 419 188 422

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments ²		All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)		Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
311222, Soybean processing												
United States	8 - - -	117 6 22 6 5 3	75 1 12 4 4 2	7 314 172 2 222 245 305 137	290 672 4 082 88 614 10 509 12 839 4 090	5 245 107 1 624 134 232 97	11 283 232 3 563 295 499 178	2 385 57 706 5 448 8 686	3 042 779 7 664 537 327 33 961 217 075 28 142	9 846 649 49 382 1 712 636 445 764 426 604 303 850	12 783 547 57 171 2 261 386 477 341 643 363 332 191	189 131 2 421 54 483 3 491 15 191 2 331

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
311222, Soybean processing	
Companies ¹ number .	61
All establishments ²	117 42 54 21
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	7 314 360 429 290 672 69 757
Production workers, average for year	5 245 5 156 5 212 5 285 5 311
Production worker hours	11 283 181 396
Total cost of materials \$1,000 Materials, parts, containers, packaging, etc., used \$1,000 Resales \$1,000 Purchased fuels \$1,000 Purchased electricity \$1,000 Contract work \$1,000	9 846 649 9 168 887 379 985 192 218 97 063 8 496
Quantity of electricity purchased for heat and power 1,000 kWh. Quantity of electricity generated less sold for heat and power 1,000 kWh.	2 426 551 167 802
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000 St.000 \$1,000	12 783 547 10 301 588 2 083 579 398 380 397 944 ———————————————————————————————————
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industry \$1,000.	83 10 837 002 10 301 588 535 414
Coverage ratiopercent .	95
Value added	3 042 779
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	763 224 429 260 43 929 290 035
Total inventories, end of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	981 800 479 408 99 662 402 730
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000 Total capital expenditures (new and used) \$1,000 Buildings and other structures (new and used) \$1,000 Machinery and equipment (new and used) \$1,000 Automobiles, trucks, etc., for highway use \$1,000 Computers and peripheral data processing equipment \$1,000 All other expenditures for machinery and equipment \$1,000 Total retirements \$1,000 Gross value of depreciable assets at end of year \$1,000	3 761 426 189 131 25 040 164 091 2 382 3 011 158 698 137 815 3 812 742
Depreciation charges during year\$1,000	203 133
Total rental payments	40 041 11 393 28 648
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	216 411 91 72 020 3 083 1 314 823 2 914 1 342 15 177 1 417 13 909 104 412

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

			All emp	oloyees	P	roduction worke	ers		Total	Total	Total capital
Employment size class		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)		cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
311222, Soybean processing											
All establishments	-	117	7 314	290 672	5 245	11 283	181 396	3 042 779	9 846 649	12 783 547	189 131
1 to 4 employees	9	20	43	1 742	31	62	1 042	5 722	50 821	56 565	2 171
5 to 9 employees	9	14	59 181	2 727 6 170	38 129	73 279	1 218 3 960	8 943 8 495	49 637 173 230	59 043 180 206	1 734 5 593
20 to 49 employees	-	30	1 113	43 387	795	1 679	27 220	558 160	2 247 559	2 794 217	18 069
50 to 99 employees	-	24	1 596	62 094	1 110	2 276	36 066	1 084 974	3 541 587	4 614 803	53 249
100 to 249 employees	_	16 5	2 601 1 721	103 071 71 481	1 853 1 289	4 034 2 880	63 562 48 328	959 339 417 146	2 623 437 1 160 378	3 556 397 1 522 316	68 126 40 189
500 to 999 employees	_	-	1 /21	71 401	1 209	2 000	40 320	417 140	1 100 376	1 322 310	40 109
1,000 to 2,499 employees	-	-	_	_	_	_	_	_	_	_	_
2,500 employees or more	-	_	_	-	_	-	_	_	_	_	-
Administrative records ⁴	9	23	157	6 225	113	250	4 013	21 757	200 276	222 033	8 026

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All	All em	ployees	Pi	oduction work	ers		Total	Total	Total capital
		estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
311222	Soybean processing	117	7 314	290 672	5 245	11 283	181 396	3 042 779	9 846 649	12 783 547	189 131
3112221 3112224	Soybean oil	9	809	30 579	617	1 312	19 918	279 123	715 258	990 904	22 962
3112224	byproducts	76	6 163	248 964	4 399	9 498	155 036	2 759 407	8 969 894	11 628 007	154 704

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of companies with		Product	shipments
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
311222	Soybean processing	N	X	X	10 837 002 12 038 811
3112221	Soybean oil	N N	X	X X	2 745 728 3 161 878
31122211	Crude soybean oil, degummed	N N	X	x X	1 657 642 2 152 186
3112221111	Crude soybean oil, degummed ¹	15 10	9 440.6	S 9 484.9	1 657 642 2 152 186
31122212	Soybean oil, all other types	N N N	9 440.6 X X	X	1 088 086 1 009 692
3112221221	Crude soybean oil, not degummed ²	6	S	X S	803 143
3112221231	Soybean oil, once-refined (after alkali or caustic wash but before deodorizing or use in end products) ² mil lb2002.	8	3 229.8 D	3 258.5 D	748 557 D
3112221241	Soybean oil processed for inedible purposes (acid refined,	9	Š	S	S
	etc.)	2 5	X	D 35.8	D 8 433
3112221Y	Soybean oil, nsk	N N	X	X	– N
3112221YWV	Soybean oil, nsk	N N	X X	X X	– N
3112224	Soybean cake, meal, and other byproducts	N N	X	X	7 951 873 8 824 896
31122241	Soybean cake and meal	N N	X X	X X X	7 236 684 8 193 437
3112224111	Soybean cake and meal ¹	20 20	S 31 600.1	32 226.9	7 236 684 8 193 437
31122242	Other soybean products, including isolates and concentrates	N N N	X X	X	712 476 631 459
3112224221	Soy flour and grits mil lb . 2002	9	X X	X S D	133 471 D
3112224231	1997 Soybean lecithin ¹ miil lb. 2002.	4 8	S	S	73 610
3112224241	1997 Soybean millfeed (hullmeal) ¹	9 9	D S	D S	191 210
3112224261	Other soybean products, including isolates and concentrates mil lb . 2002.	15 19	3 014.8 X	3 020.6 P407.8	166 325 314 185
3112224Y	Soybean cake, meal, and other byproducts, nsk	11 11 N	x x	427.7 X	261 520 2 713
31122241 3112224YWV	Soybean cake, meal, and other byproducts, risk	N N	X X	X	2 713 N 2 713
31122241700	Soybean cake, meal, and other byproducts, risk	N N	â	X X	2 713 N
311222W	Soybean processing, nsk, total	N N	X	×	139 401 52 037
311222WY	Soybean processing, nsk, total	N	X	X	139 401
311222WYWW	Soybean processing, nsk, for nonadministrative-record establishments 2002.	N N	X	X	52 037
0110000000000	1997	N N	X X	X X	15 766 180
311222WYWY	Soybean processing, nsk, for administrative-record establishments	N	X	x	123 635
	1997	N	X	X	51 8

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹For additional detail, see Current Industrial Report M311J, Fats and Oils: Oilseed Crushings. ²For additional detail, see Current Industrial Report M311K, Fats and Oils: Production, Consumption, and Stocks.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3112221	Soybean oil	
	United States. 2002. 1997 Illinois 2002. 2002. 1997	2 745 728 3 161 878 371 436 661 766
3112224	Soybean cake, meal, and other byproducts 2002. United States. 1997 California 2002. Illinois. 2002. Kansas. 1997 Missouri 1997 Nebraska 2002. 1997 2002. 2002 1997 2002 2002 2003 1997 2004 1997 2005 1002	7 951 873 8 824 896 38 914 7 516 1 340 934 1 495 751 233 213 344 505 568 607 473 312

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
311222	Soybean processing		
00900001	Total materials	X	9 168 887
11115003	1997 Corn	X D	11 262 847 D
11119915	Sorghum	N D N	N D N
11111000	Soybean seeds, nuts, and beans	42 459.7	7 086 505
11192003	1997 Cottonseed seeds, nuts, and beans	36 797.5 D N	9 380 234 D N
11100007	Other seeds, nuts, and beans (excluding cottonseed, sunflower, soybean, flaxseed, and peanuts)	D N	D N
31122301	Cottonseed oil, crude	D	D
31122303	Cottonseed oil, once-refined	N D	N D
31122001	Cottonseed oil, fully-refined	N D N	N D N
31122201	Soybean oil, crude	3 492.2	636 690
31122203	Soybean oil, once-refined	1 443.7 D	339 041 D
31122003	1997 Soybean oil, fully-refined 1997 mil lb. 2002 1997 1997	N D N	N D N
31122123	Corn oil, crude	D N	D N
31122125	Corn oil, once-refined	D N	D N
31122127	1997 Corn oil, fully-refined mil lb. 2002 mil bp. 2002 1997	D N	D N
31122309	Other crude oil mil lb .2002.	D N	D N
31122005	Other oil, fully-refined	D N	D
00970099	All other materials and components, parts, containers, and supplies	X	326 374 891 437
00971000	Materials, ingredients, containers, and supplies, nsk	X X	883 501 652 135

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.